Recombinant human RNA polymerase III subunit RPC10/POLR3K protein

Catalog Number: ATGP2759

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-108aa

UniProt No.
Q9Y2Y1

NCBI Accession No.
NP_057394.1

Alternative Names
DNA-directed RNA polymerase III subunit RPC10, C11, C11-RNP3, hRPC11, My010, RPC10, RPC11, RPC12.5

PRODUCT SPECIFICATION

Molecular Weight
14.7 kDa (131aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 50% glycerol, 2mM DTT, 2mM EDTA

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
PORL3K is a small essential subunit of RNA polymerase III, the polymerase responsible for synthesizing transfer and small ribosomal RNAs in eukaryotes. The carboxy-terminal domain of this subunit shares a high degree of sequence similarity to the carboxy-terminal domain of an RNA polymerase II elongation factor. This similarity in sequence is supported by functional studies showing that this subunit is required for proper pausing and termination during transcription. Pseudogenes of this gene are found on chromosomes 13 and 17 Recombinant human PORL3K protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

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conventional chromatography techniques.

Amino acid Sequence

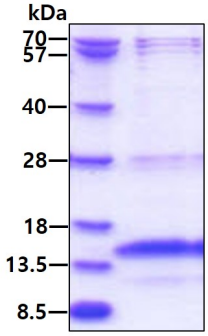
<MGSSHHHHHH SSGLVPRGSH MGS>MLLFCPG CGNGLIVEEG QRCHRFACNT CPYVHNITRK VTNRKYPKLK EVDDVLGGAA AWENVDSTAE SCPKCEHPRA YFMQLQTRSA DEPMTTFYKC CNAQCGHRWR D

General References

Johnson,S.S., et al. (2007) Mol. Cell 26 (3), 367-379
De Gobbi,M., et al. (2006) Science 312 (5777), 1215-1217

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.